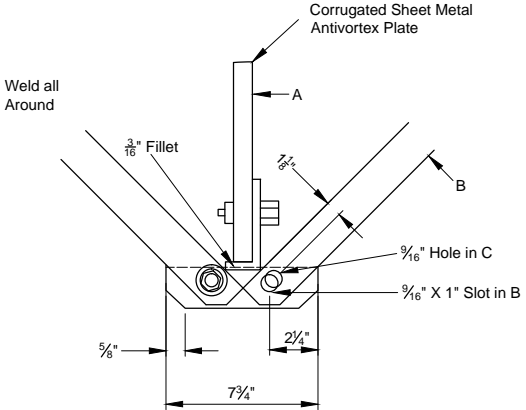
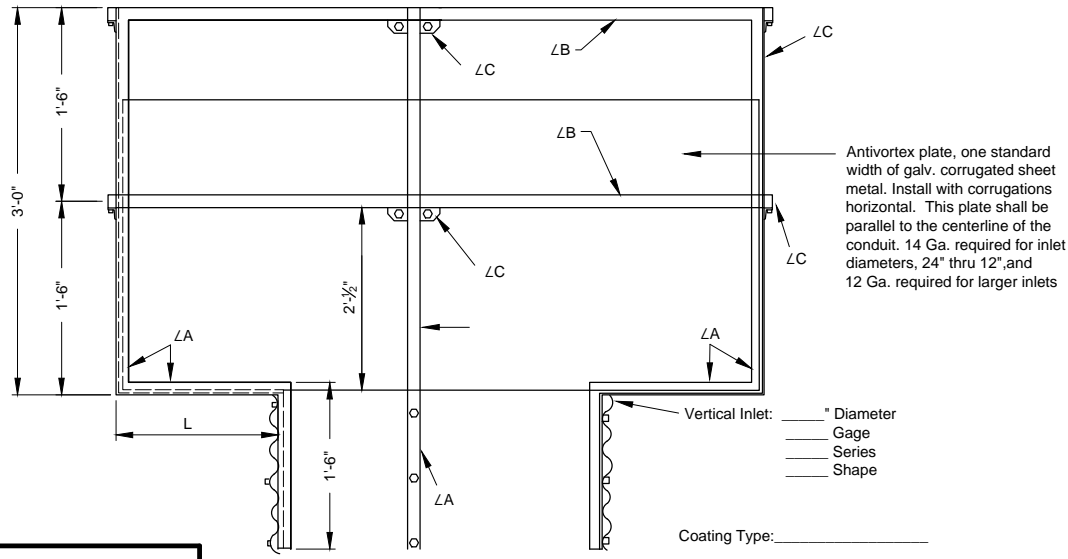


- Notes
1. LA's, LB's and LC's to be fabricated of 2"x2"x $\frac{5}{16}$ " structural steel angle cut for inlet diameters 18" thru 90", and of 2"x2"x $\frac{1}{4}$ " for smaller inlets. Punch and weld to dimensions and shapes shown.
  2. Attach LA's to vertical inlet with a minimum of three(3),  $\frac{1}{2}$ "x1 $\frac{1}{2}$ " machine bolts in each angle, spaces in alternate corrugations. Drill  $\frac{9}{16}$ " holes in the inlet and in LA's for the  $\frac{1}{2}$ " bolts. (12 min. required for each vertical inlet)
  3. Attach antivortex plate to LA's with a minimum of seven(7)  $\frac{1}{2}$ "x $\frac{1}{2}$ " machine bolts in each angle spaced in alternate corrugations. Drill  $\frac{9}{16}$ " holes in anti-vortex plate and in LA's for the  $\frac{1}{2}$ " bolts. (14 required for each vertical inlet)
  4. LB's shall be attached to LA's by bolting as shown on the drawings. 4 LA's; 8 LB's; and 8 LC's are required.
  5. Use a flat washer under the head of each bolt and a flat washer and lock washer under each nut. All nuts, bolts, and washers shall be galvanized.
  6. All angles of the guard assembly shall be galvanized after all punching, cutting, welding and burning has been completed. See NRCS material specification 582.

SCHEDULE OF SIZES				
Inlet Dia.	A Length	B Length	L	Antivortex Plate Length
24"	6'-6 $\frac{1}{2}$ "	4'-2"	2'- $\frac{1}{2}$ "	5'-8"
30"	6-3 $\frac{1}{2}$ "	4'-2"	1'-9 $\frac{1}{2}$ "	5'-8"
36"	6'- $\frac{1}{2}$ "	4'-2"	1'-6 $\frac{1}{2}$ "	5'-8"
42"	6'-11"	5'-9"	2'-5"	7'-10 $\frac{1}{2}$ "
48"	6'-8"	5'-9"	2'-2"	7'-10 $\frac{1}{2}$ "
54"	6'-5"	5'-9"	1'-11"	7'-10 $\frac{1}{2}$ "
60"	7'-1 $\frac{1}{2}$ "	7'-1"	2'-7 $\frac{1}{2}$ "	9'-7 $\frac{1}{2}$ "
66"	6'-10 $\frac{1}{2}$ "	7'-1"	2'-4 $\frac{1}{2}$ "	9'-7 $\frac{1}{2}$ "
72"	6'-7 $\frac{1}{2}$ "	7'-1"	2'-1 $\frac{1}{2}$ "	9'-7 $\frac{1}{2}$ "
78"	7'-4 $\frac{1}{2}$ "	8'-6"	2'-10 $\frac{1}{2}$ "	11'-9"
84"	7'-1 $\frac{1}{2}$ "	8'-6"	2'-7 $\frac{1}{2}$ "	11'-9"
90"	6'-10 $\frac{1}{2}$ "	8'-6"	2'-4 $\frac{1}{2}$ "	11'-9"



Use One  $\frac{9}{16}$ " Flat Washer  
And One  $\frac{9}{16}$ " Lock Washer  
With A  $\frac{1}{2}$ " X 1 $\frac{1}{2}$ " Steel  
Hexagon Bolt.

Corrugated Metal Vertical Inlet Guard Rails With Antivortex Plate	
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Section A-A  
n.t.s.

DETAIL-A  
n.t.s.

Revisions		
Date	Approved	Title



File No.  
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Drawing No.

Sheet 1 of 1

Corrugated Metal Vertical Inlet Guard Rails  
With Antivortex Plate

Date	Designed	Drawn	Checked	Approved